



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/693,414	
				Filing Date	10/24/2003	
				First Named Inventor	Hawley	
				Art Unit	1732	
				Examiner Name		
Sheet	1	of	3	Attorney Docket Number	W20-001-09-US	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
Haf	1	RE 32,772	10-25-88	Hawley		
Haf	2	3,804,570	04-16-74	Hoschele et al.		
Haf	3	4,406,196	09-27-83	Roncato et al.		
Haf	4	4,616,989	10-14-86	Mewes et al.		
Haf	5	5,110,275	05-05-92	Scheuring		
Haf	6	5,165,941	11-24-92	Hawley		
Haf	7	5,185,117	02-09-93	Hawley		
Haf	8	5,879,602	03-09-99	Scheuring		
Haf	9	6,186,769	02-13-01	Hawley		
Haf	10	6,431,847	08-13-02	Hawley et al.		
Haf	11	6,604,929	08-12-03	Hawley et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
Haf	12	CA 1177614	11-13-84	Northern Telecom LTD		
Haf	13	DE 1,151,964	07-25-63	Werner & Pfleiderer		
Haf	14	DE 19523490 A1	01-02-97	Werner & Pfleiderer		
Haf	15	DE 4016784 A1	11-28-91	Rau		
NON PATENT LITERATURE DOCUMENTS						
Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
Haf	16	Plastics Technology, January 2001, "Keeping-Up with Injection Molding".				
Examiner Signature	Monica V. B. Hiron			Date Considered	8/2/05	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known Application Number: 10/693,414 Filing Date: 10/24/2003 First Named Inventor: Hawley Art Unit: 1732 Examiner Name: Attorney Docket Number: W20-001-09-US		
Sheet	2	of	3			
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
<i>Haf</i>	1	3,760,673	09-25-73	Peterson, Jr.		
<i>Haf</i>	2	4,708,623	11-24-87	Aoki et al.		
<i>Haf</i>	3	4,728,275	03-01-88	Dilullo et al.		
<i>Haf</i>	4	4,937,028	06-26-90	Glemet et al.		
<i>Haf</i>	5	5,191,819	03-09-93	Hoshi		
<i>Haf</i>	6	5,474,036	12-12-95	Hansen et al.		
<i>Haf</i>	7	5,658,601	08-19-97	Hoshi		
<i>Haf</i>	8	5,873,941	02-23-99	Milliman		
<i>Haf</i>	9	5,989,009	11-23-99	Matsuo		
<i>Haf</i>	10	6,241,498	06-05-01	Hansen et al.		
<i>Haf</i>	11	6,247,389	06-19-01	Samuels et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
<i>Haf</i>	12	EP 0432427 A1	06-19-91	Werner & Pfeleiderer		
<i>Haf</i>	13	EP 0694378 A2	01-31-96	Rau et al.		
<i>Haf</i>	14	JP 61-40850A	05-20-94	Furukawa Electric Co.		
<i>Haf</i>	15	JP 63-147622 A	06-20-88	Engineering Plastic		
NON PATENT LITERATURE DOCUMENTS						
Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
Examiner Signature	<i>Marcia J. Feltine Hison</i>			Date Considered	<i>8/2/05</i>	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known Application Number: 10/693,414 Filing Date: 10/24/2003 First Named Inventor: Hawley Art Unit: 1732 Examiner Name: Attorney Docket Number: W20-001-09-US		
Sheet	3	of	3			
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
Map	1	3,042,570	07-03-62	Bradt		
Map	2	3,467,739	09-16-69	Underwood et al.		
Map	3	3,520,027	07-14-70	Amos et al.		
Map	4	3,676,095	07-11-72	Stalego		
Map	5	3,752,614	08-14-73	Bremer		
Map	6	4,806,298	02-21-89	Wilkinson et al.		
Map	7	5,529,652	06-25-96	Asai et al.		
Map	8	5,540,797	07-30-96	Wilson		
Map	9	5,571,326	11-05-96	Boissonnat et al.		
Map	10	5,653,534	08-05-97	Matsumoto et al.		
Map	11	5,843,231	12-01-98	Spencer et al.		
Map	12	6,090,319	07-18-00	Sharma et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† ⁶
Map	13	WO 01/54877 A1	08-02-01	Hawley		
Map	14	WO 02/02293 A1	01-10-02	Kraus-Maffei		
Map	15	WO 03/016002 A1	02/27/03	Hawley		
Map	16	WO 86/00568	01-30-86	Stade et al.		
NON PATENT LITERATURE DOCUMENTS						
Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
Examiner Signature	Monica St. Lawrence Hixon			Date Considered	8/2/05	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9189 and select option 2.